## **IN THE CLAIMS**

The following listing of the claims is provided in accordance with 37 C.F.R. §1.121.

1. (previously presented) An electronically controlled gas burner system comprising:

at least one gas burner;

a micro-electro-mechanical valve comprising a plurality of microvalves in parallel fluid communication with the gas burner; and

a microvalve controller for controlling the opening of each of the microvalves in the micro-electro-mechanical valve.

- 2. (original) The system of claim 1, wherein the micro-electromechanical valve is positioned remote from the gas burner.
- 3. (original) The system of claim 1, wherein the micro-electromechanical valve is positioned within the gas burner.
- 4. (original) The system of claim 1, wherein the micro-electromechanical valve is coupled to a plurality of gas burners.
- 5. (original) The system of claim 4, wherein a portion of the plurality of microvalves in the micro-electro-mechanical valve is coupled to a respective one of the plurality of gas burners.
- 6. (original) The system of claim 1, wherein the microvalve controller further comprises a module to selectively control an opening of each of the microvalves for controlling a gas output.

- 7. (original) The system of claim 1, wherein the module comprises a pulse width modulator.
- 8. (original) The system of claim 1, wherein the microvalve controller is further coupled to an electronic interface programmable by a user.
- 9. (original) The system of claim 1, wherein the microvalve controller is further coupled to a sensor positioned proximate the burner.
- 10. (previously presented) An electronically controlled gas burner system comprising:

at least one gas burner; and

a micro-electro-mechanical valve comprising a plurality of independently controllable microvalves in parallel fluid communication with the gas burner.

- 11. (canceled).
- 12. (previously presented) The gas burner of claim 10, further comprising a microvalve controller for controlling an opening of each of the microvalves.
- 13. (previously presented) The gas burner of claim 12, wherein each of the microvalves is configured to contribute to a flame when opened by the microvalve controller.
- 14. (original) The gas burner of claim 12, wherein the microvalve controller further comprises a pulse width modulator to modulate the opening of each of the microvalves for controlling a gas output.

- 15. (original) The gas burner of claim 14, wherein the pulse width modulator operates at duty cycle in the range of between 90% and 10%.
- 16. (original) The gas burner of claim 15, wherein the pulse width modulator operates at duty cycle in the range of between 60% and 40%.
- 17. (previously presented) A gas valve comprising a plurality of microvalves in parallel fluid communication with a gas burner of a cooking appliance.
- 18. (original) The gas valve of claim 17, further comprising a microvalve controller for controlling the opening of each of the microvalves.
- 19. (previously presented) A method for controlling gas flow to a gas burner comprising:

issuing a command for a desired gas flow; and

controlling opening of at least some of a plurality of independently controllable microvalves in parallel fluid communication to provide the desired gas flow corresponding to the command.

- 20. (previously presented) The method of claim 19, further comprising allocating a portion of the plurality of microvalves to a respective burner of a multiburner\_appliance.
- 21. (original) The method of claim 19, wherein controlling an opening of each of the microvalves comprises driving the microvalve to be fully open.

- 22. (original) The method of claim 19, further comprising: issuing a feedback command to adjust the gas flow; and adjusting the gas flow by changing the opening of at least some of the microvalves.
- 23. (previously presented) The gas valve of claim 17, wherein the plurality of microvalves are independently controllable.